

Message Text

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63

ACTION EUR-12

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FM AMEMBASSY MOSCOW

TO SECSTATE WASHDC 1176

ERDA WASHDC

ERDA GERMANTOWN MD

UNCLAS MOSCOW 18149

ERDA FOR BECKJORD

E.O. 11652: N/A

TAGS: TGEN, ENRG, PFOR, UR, US

SUBJECT: US-USSR ATOMIC ENERGY AGREEMENT: FAST BREEDER REACTORS
(07.02): SEMINAR ON PHYSICS OF SODIUM-COOLED FBR'S

1. EMBASSY HAS RECEIVED FROM SCAE UNDATED LETTER FOR BECKJORD FROM MOROZ CONVEYING UNDATED LETTER FOR BACKJORD FROM KAZACHKOVSKIY AND AN ATTACHMENT. INFORMAL TRANSLATION OF TEXT FOLLOWS.

2. BEGIN TEXT OF MOROZ LETTER. IN CONNECTION WITH THE PREPARATION FOR THE SEMINAR ON PHYSICS OF FAST SODIUM-COOLED REACTORS, WHICH IS TO BE HELD IN THE USSR IN THE FIRST HALF OF 1977, I AM SENDING YOU THE SUGGESTIONS OF THE SOVIET SIDE ON THE PROGRAM OF THE SEMINAR.

3. I ASK THAT YOU SEND US THE OBSERVATIONS AND SUGGESTIONS OF THE AMERICAN SIDE ON THE THEMES OF THE SEMINAR AS SOON AS POSSIBLE. END TEXT OF MOROZ LETTER.

4. BEGIN TEXT OF KAZACHKOVSKIY LETTER. ACCORDING TO ARTICLE 1 OF THE PROGRAM OF THE US-USSR COOPERATION ON FAST BREEDERS FOR 1977-78, IT IS PLANNED TO HOLD IN THE FIRST HALF OF 1977 IN THE USSR A JOINT SEMINAR, "QUESTIONS OF PHYSICS OF FAST SODIUM-COOLED REACTORS."

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5. WE WOULD CONSIDER IT ADVISABLE TO DEDICATE THE ENTIRE SEMINAR TO VARIOUS QUESTIONS CONNECTED WITH FUEL CONVERSION OF FAST REACTORS, AT THIS THEME HAS NO YET BEEN DISCUSSED AT JOINT MEETINGS, IN SPITE OF ITS GREAT IMPORTANCE IN THE WHOLE PROBLEM OF CREATION OF INDUSTRIAL BREEDERS.

6. IN CONNECTION WITH THIS, WE ARE SUBMITTING FOR YOUR CONSIDERATION A PRELIMINARY PROGRAM WHICH COULD BE TAKEN AS A BASIS FOR THE REPORTS TO BE SUBMITTED.

7. ON QUESTIONS OF RADIATION SHIELDING, WHICH WERE ORIGINALLY OUTLINED IN GENERAL TERMS IN THE SEMINAR PROGRAM, WE SUGGEST EXCLUDING THEM FOR THE SEMINAR PROGRAM, BECAUSE SOVIET SCIENTISTS WILL TAKE PART IN THE INTERNATIONAL CONFERENCE IN KNOXVILLE, TENNESSEE, IN APRIL 1977, AT WHICH TIME THESE QUESTIONS WILL BE DISCUSSED. MOREOVER, IT WOULD BE DIFFICULT TO DISCUSS BOTH FUEL CONVERSION AND SHIELDING WITHIN ONE SEMINAR.

8. WE WOULD BE OBLIGED TO YOUR FOR YOUR COMMENTS AND SUGGESTIONS ON THE THEMES OF THE FORTHCOMING SEMINAR. END TEXT OF KAZACHKOVSKIY LETTER.

9. BEGIN TEXT OF DRAFT PROGRAM, (NUCLEAR FUEL CONVERSION) 1. NUCLEAR DATA OF GREAT IMPORTANCE FOR CALCULATION OF NUCLEAR FUEL CONVERSION.

--MODERN TENDENCIES IN ESTIMATING NUCLEAR DATA FOR CONVERSION CALCULATIONS.

-- COMPARISON OF CALCULATIONS OF STANDARD REACTORS, CARRIED OUT IN THE USSR AND THE USA UNDER THE COOPERATION PROGRAM.

2. THE ROLE OF INTEGRAL EXPERIMENTS IN DETERMINING THE CONVERSION RATIO (CR).

--METHODOLOGY OF APPLICATION OF INTEGRAL EXPERIMENTS FOR NUCLEAR DATA CORRECTIONS.

- ANALYSIS OF CONSISTENCY OF A SET OF INTEGRAL EXPERIMENTS.
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- POSSIBILITY OF EXPERIMENTAL CR DETERMINATION IN CRITICAL ASSEMBLIES AND IN POWER REACTORS.

3. CONVERSION AT FAST SODIUM-COOLED POWER REACTORS.

- METHODS OF CALCULATION OF THE CONVERSION RATION AND THE DOUBLING

TIME.

-ESTIMATION OF POSSIBLE CONVERSION INDEXES AT FAST POWER REACTORS
OF HIGH CAPACITY (INCLUDING WITH DIFFERENT FUELS).

-INFLUENCE OF STRUCTURAL FEATURES OF THE ACTIVE ZONE ON CONVERSION
INDEXES. END TEXTS.

10. TWO LETTERS, DRAFT PROGRAM POUCHED EUR/SOV EXCHANGES.

MATLOCK

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